

High Technology

Light Technology Specialists

RC 1027 Gloss UV Cure Top Coat for HP Inks

Properties

RC 1027 is a clear UV curing top coat for HP inks, formulated for use on board and paper to give good printability onto HP inks.

Special Features

Good flow over HP Indigo inks and litho inks.

Fast curing with good solvent, chemical and water resistance. Good bond with suitable boards.

Benzophenone free formulated for low odour. Good scratch and mar resistance.

Fully cured film will provide good barrier properties.

Gloss finish formulated on selected boards to give sheen levels of between 40 and 50 (by gloss meter).

End Use

RC 1027 Gloss Top Coat is supplied press ready to run on Flexographic and Gravure coater type units.

The viscosity is supplied at a range which ensures maximum flow and bonding on press.

Drying/Curing

High intensity, focused medium pressure UV arc lamps can be used.

Power levels from 180 watts per cm to 240 watts per cm.

Curing/crosslinking will be dependent on curing power, number of lamps and the machine running speed.

One lamp systems at 180 watts per cm can be used.

One or two UV lamps are more common on most machines.

Running speeds can be 200 metres per minute (dependant on how many lamps used).

Properties	Range	Unit
Total NV Solids	100%	100%
Visc Brookfield	160	25 degMpas
Appearance	Clear Glossy	
Coating Levels	3.5–5 gsm	4 gsm

Storage and Usage

RC 1027 Gloss Top Coat should be used within three months and stored no longer than six months. Sealed light impervious containers must be used and kept stored in dry ambient (16-28 Centigrade) conditions. Exposure to any ultraviolet light or sunlight may cause premature viscosity increase, gelling and curing to a solid. Exposure to high temperatures greater than 45 degrees centigrade and sunlight could also cause bulk exothermic high temperature reactions and curing/crosslinking to a gel or solid form.

Health and Safety

UV Coatings are classed as irritants and as such should be prevented from coming into contact with you or any other person. Irritants have the potential to sensitise. Personnel with sensitive skin would need to take strict precautions in the use of these products. Gloves/goggles/glasses overalls and other suitable protective wear must be used were necessary to protect from any personnel contact.

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We specialise in light technologies including light measuring equipment (IR, UV, visible), light curing coatings, inks, adhesives, lamps and equipment.

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